

## CHAPTER 78. PROCESS PART 121/135 OPERATOR'S AIRCRAFT/ENGINE UTILIZATION REPORT

### SECTION 1. BACKGROUND

#### 1. PROGRAM TRACKING AND REPORTING SUBSYSTEM (PTRS) ACTIVITY CODES.

A. *Maintenance*: 3321

B. *Avionics*: 5321

**3. OBJECTIVE.** This chapter describes guidance for processing an operator's monthly engine utilization report as required by policy from the Aircraft Maintenance Division, AFS-300.

#### 5. GENERAL.

A. The monthly engine utilization report provides data by the Safety Performance Analysis System (SPAS). This utilization data base is one of several databases that are utilized by SPAS to produce indicators that will be useful to the Aircraft Maintenance Division and the field inspectors in the performance of their duties as aviation safety inspectors (ASI).

(1) The responsibility for completing and submitting the report rests with the assigned ASI. There are no regulatory requirements for the operator to submit this information to the FAA in the form of aircraft/engine utilization reports but regulations in 14 CFR parts 121/135, §§ 121.705 and 135.417 do require mechanical reliability reports.

(2) AFS-620 must receive this report by the 15th of each month. To ensure processing requirements are met, the data should be received from the operator by the 7th of each month.

B. AFS-620 reviews the reports received from district offices to ensure the data is properly prepared for entry into the utilization system database. All computer-prepared reports will be reviewed by AFS-620 to ensure they are complete and accurate.

C. *Usage Report Improvements.* Correspondence concerning the improvement of the usage report system and significant problems found in using this system should be addressed to AFS-620.

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## SECTION 2. PROCEDURES

### 1. PREREQUISITES AND COORDINATION REQUIREMENTS.

#### A. Prerequisites:

- Knowledge of regulatory requirements of 14 CFR parts 121 and 135
- Successful completion of the Airworthiness Inspectors Indoctrination Course, or previous equivalent

*B. Coordination.* This task requires coordination between the ASI and the operator to ensure timely submission of data.

### 3. REFERENCES, FORMS, AND JOB AIDS.

#### A. References. None.

#### B. Forms:

- Aeronautical Center Form, AC 8320-1, Air Carrier Aircraft Engine Utilization Report

#### C. Job Aids:

- Figure 78-1, Daily Utilization Calculations

### 5. PROCEDURES.

*A. Prepare the Report.* Each month the assigned ASI shall obtain from the air carrier(s) the information to complete the monthly engine usage report. The report is to be typewritten and submitted on AC Form 8320-1. The following information must be completed:

(1) Operator Designation: Enter the operator's four-character maintenance designator in this block.

(2) Month/Year

(3) Operator's Name

(4) Operator's Certificate Number

(5) Name and Phone Number of ASI Submitting Report

(6) Regional/District Office

(7) Aircraft Manufacturer: The one-to-two letter abbreviation for the manufacturer (code contained on back of AC Form 8320-1).

(8) Aircraft Model: The complete model/series designator listed on the aircraft data plate or type certificate data sheet (TCDS).

(9) Number of Aircraft: The total quantity of each model of aircraft which was in service any time during this report month.

(10) Engine Manufacturer: A one-to-four letter abbreviation for the engine manufacturer, Ref. FAA Order 8010.2 (code contained on back of AC Form 8320-1).

(11) Engine Model: See TCDS for model designation.

(12) Number of Engine Shutdowns: The number of engine shutdowns for cause, not to include training, demonstrations, or flight check purposes.

(13) Number of Engine Removals: Engines removed prematurely due to mechanical malfunctions, not to include engines removed for company convenience.

(14) Time Between Overhauls (TBO)

(15) Hot Section Inspection Time (HSI)

**NOTE: If times are controlled by the maintenance program, enter type of program, i.e., Condition Monitoring (CM), Logical Information Based on Reliability (LIBRA), etc.**

(16) Aircraft Total Hours: Fleet flight hours for each model to the nearest whole hour.

(17) Average Hours Per Day: To calculate daily usage, divide total aircraft fleet hours by the number that results from multiplying the total number of aircraft by the total number of days in the month. See figure 78-1.

(18) Engine Total Hours: Number of engines per aircraft times Aircraft Total Hours.

(19) Remarks: ASI's remarks and comments, e.g., type of engine program and revisions, TBO/Hot Section Inspection Time revisions, deletion and addition of aircraft to operations specifications, including date and N-number, etc.

*B. Submit the Report.* Submit the original report to the Federal Aviation Administration (FAA), Aviation Standards National Field Office, Operational Systems Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

### 7. TASK OUTCOMES.

#### A. File PTRS Data Sheet.

*B. Document the Task.* File a copy in the certificate-holding district office (CHDO) file.

### 9. FUTURE ACTIVITIES. Normal surveillance.

**FIGURE 78-1**  
**DAILY UTILIZATION CALCULATIONS**

To calculate daily usage, divide total aircraft fleet hours by the number that results from multiplying the total number of aircraft by the total number of days in the month.

No. AC	DAYS IN MONTH	AC TOTAL HOURS	DAILY USAGE
10	31	1615	5.2

$10 \times 31 = 310$  AC days

$1615 / 310 = 5.2$  Daily Usage